

## N,O-Bis(trimethylsilyl)acetamide 10416-59-8 MSDS

Name:	NO-Bis(trimethylsilyl)acetamide Material Safety Data Sheet
Synonym:	BSA; bis(trimethylsilyl)acetamide
CAS:	10416-59-8

### Section 1 - Chemical Product

MSDS Name:NO-Bis(trimethylsilyl)acetamide Material Safety Data Sheet

Synonym:BSA; bis(trimethylsilyl)acetamide

### Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
10416-59-8	NO-Bis(trimethylsilyl)acetamide	100 %

Hazard Symbols: XN F

Risk Phrases: 10 22

### Section 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Flammable. Harmful if swallowed.Water-Reactive.

Potential Health Effects

Eye:

Causes severe eye irritation.

Skin:

Causes skin irritation.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Causes respiratory tract irritation.

Chronic:

May cause cancer according to animal studies.

### Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical aid.

Notes to Physician:

## **Section 5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use carbon dioxide or dry chemical. DO NOT USE WATER!

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal.

## **Section 7 - HANDLING and STORAGE**

Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get on skin or in eyes. Avoid ingestion and inhalation.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

## **Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:

Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid  
Appearance: clear to light yellow  
Odor: None reported.  
pH: Not available.  
Vapor Pressure: 18 mbar @ 50 C  
Viscosity: Not available.  
Boiling Point: 71.0 - 73.0 C  
Freezing/Melting Point: 24 deg C  
Autoignition Temperature: Not applicable.  
Flash Point: 107 deg F ( 41.67 deg C)  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature: >80 C  
Solubility in water: Decomposes in water.  
Specific Gravity/Density: 0.83  
Molecular Formula: C8H21NOSi2  
Molecular Weight: 203.3241

## **Section 10 - STABILITY AND REACTIVITY**

Chemical Stability:  
Stable under normal temperatures and pressures.  
Conditions to Avoid:  
High temperatures, mechanical shock, incompatible materials, ignition sources, exposure to moist air or water.  
Incompatibilities with Other Materials:  
Strong oxidizing agents, strong acids, and moist air or water.  
Hazardous Decomposition Products:  
Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen, silicon oxide.  
Hazardous Polymerization: Has not been reported.

## **Section 11 - TOXICOLOGICAL INFORMATION**

RTECS#:  
CAS# 10416-59-8: AK3000000 LD50/LC50:  
Not available.  
Carcinogenicity:  
NO-Bis(trimethylsilyl)acetamide - IARC: Group 3 carcinogen (listed as \*\* undefined \*\*).  
See actual entry in RTECS for complete information.

## **Section 12 - ECOLOGICAL INFORMATION**

Ecotoxicity:

Keep away from ground water, waters and drains.

## **Section 13 - DISPOSAL CONSIDERATIONS**

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

## **Section 14 - TRANSPORT INFORMATION**

IATA

Shipping Name: FLAMMABLE LIQUID, NOS

Hazard Class: 3

UN Number: 1993

Packing Group: II

IMO

Shipping Name: FLAMMABLE LIQUID, NOS

Hazard Class: 3

UN Number: 1993

Packing Group: II

RID/ADR

Shipping Name: FLAMMABLE LIQUID, NOS

Dangerous Goods Code: 3

UN Number: 1993

## **Section 15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 10 Flammable.

R 22 Harmful if swallowed.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 10416-59-8: 1

United Kingdom Occupational Exposure Limits

CAS# 10416-59-8: OES-United Kingdom, TWA (listed as \*\* undefined \*\*): total inhalable dust: 6 mg/m<sup>3</sup> TWA; respirable dust: 2.4 mg/m<sup>3</sup>

TWA

Canada

CAS# 10416-59-8 is listed on Canada's NDSL List.

CAS# 10416-59-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 10416-59-8: Not available.

US FEDERAL

TSCA

CAS# 10416-59-8 is listed on the TSCA inventory.

**SECTION 16 - ADDITIONAL INFORMATION**

N/A